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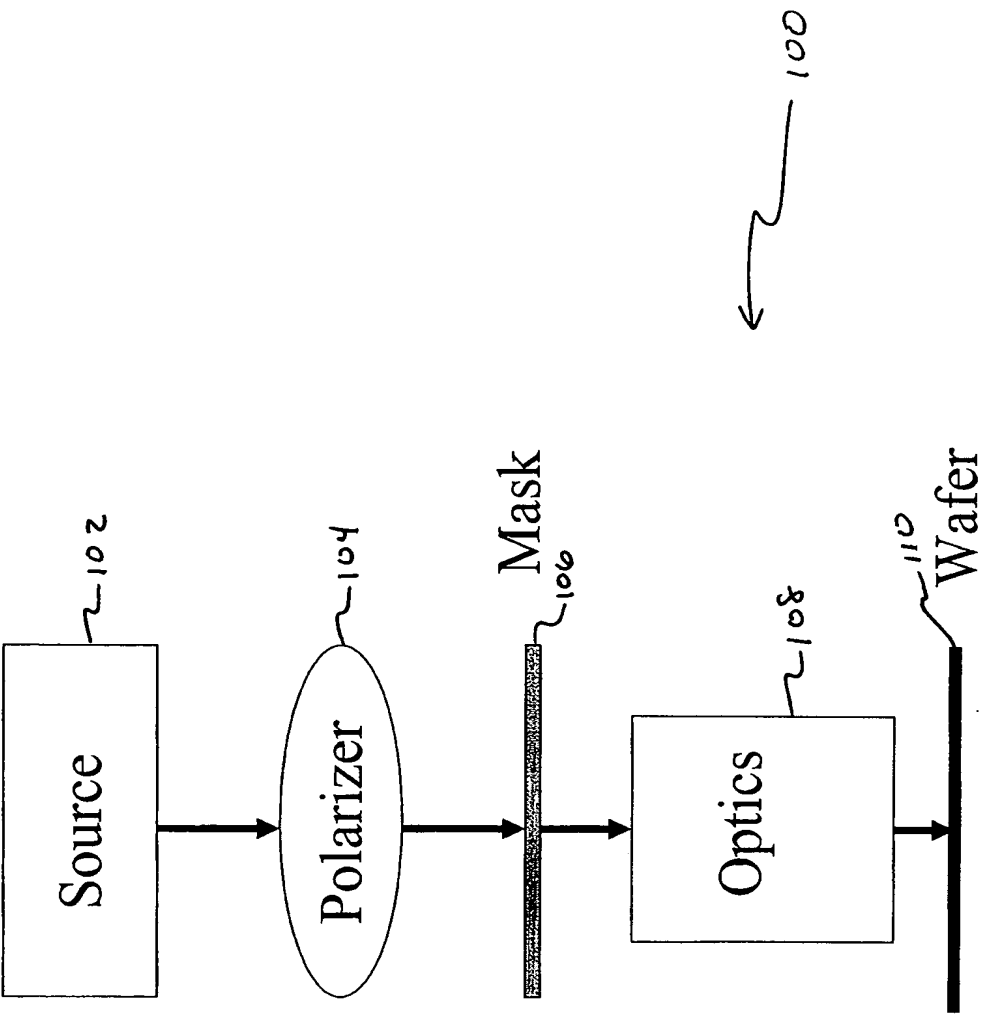


FIG. 1

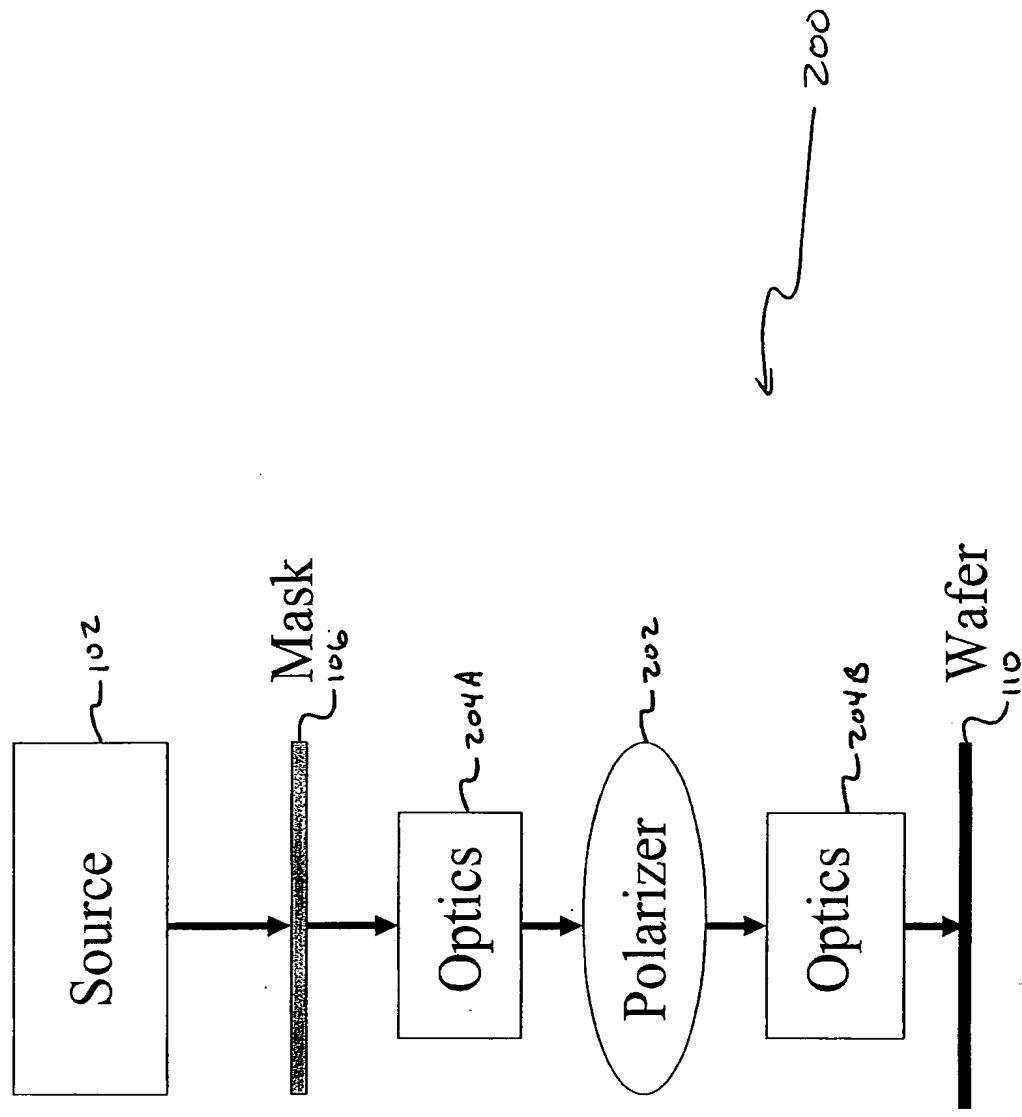


FIG. 2

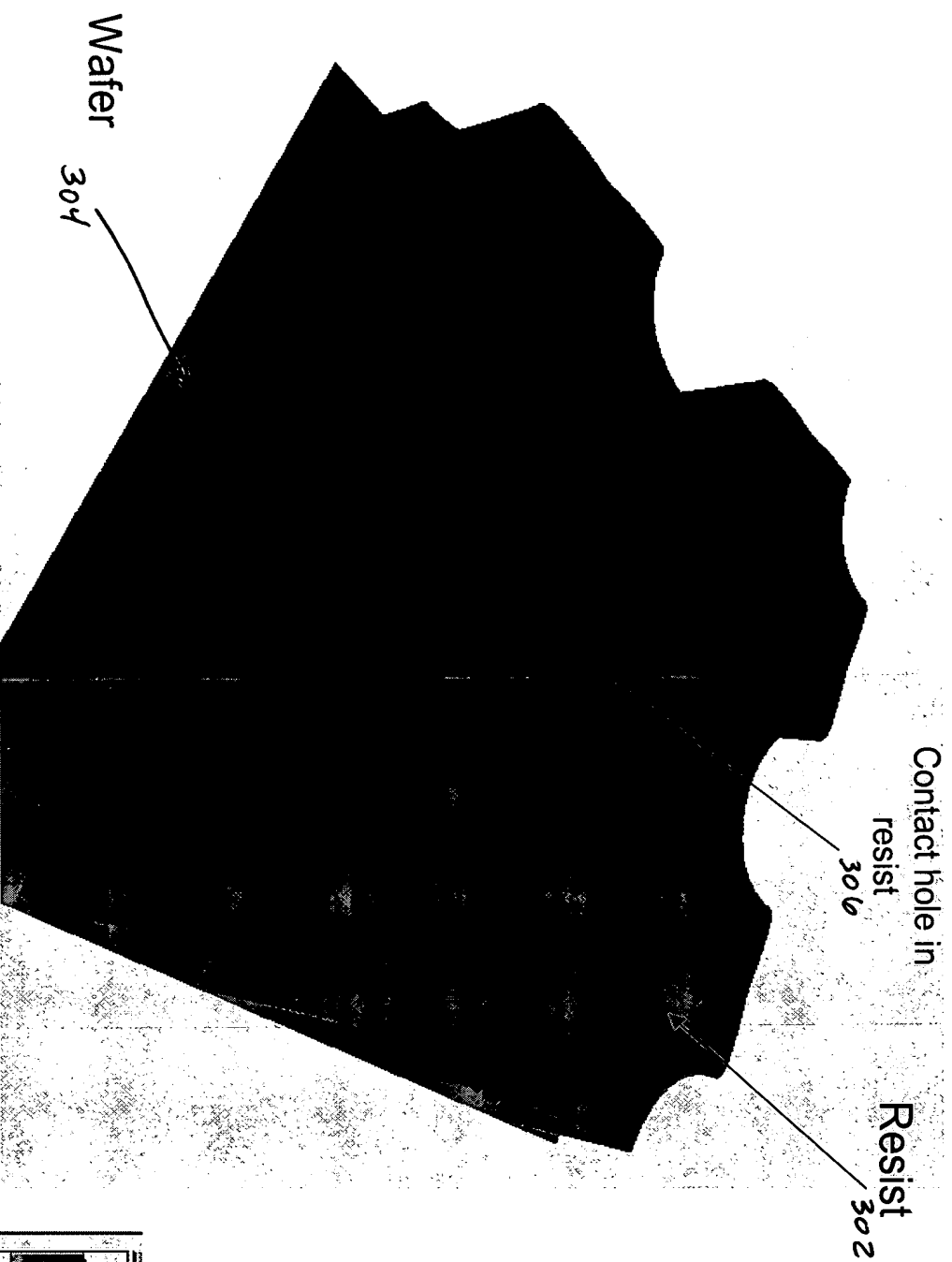


FIG. 3A

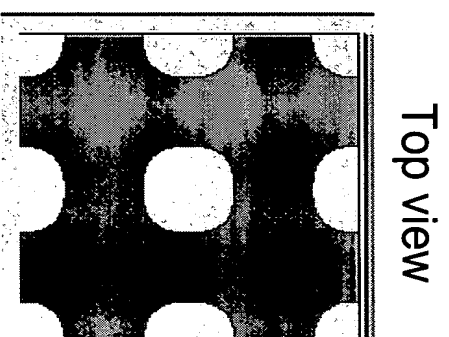


FIG. 3B

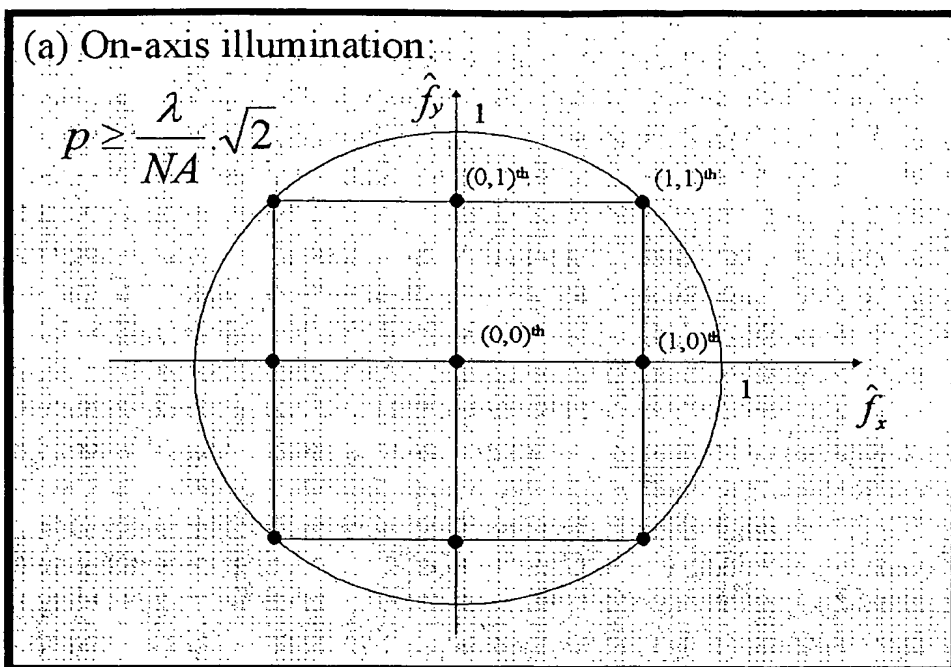


FIG. 4A

(b) Off-axis illumination:

$$p \geq \frac{\lambda}{NA} \frac{\sqrt{2}}{2}$$

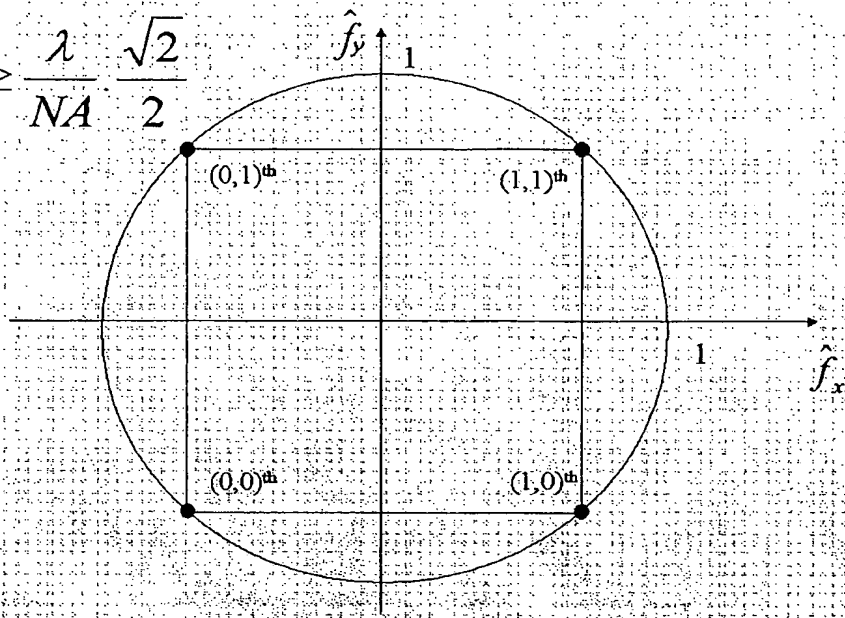


FIG. 4B

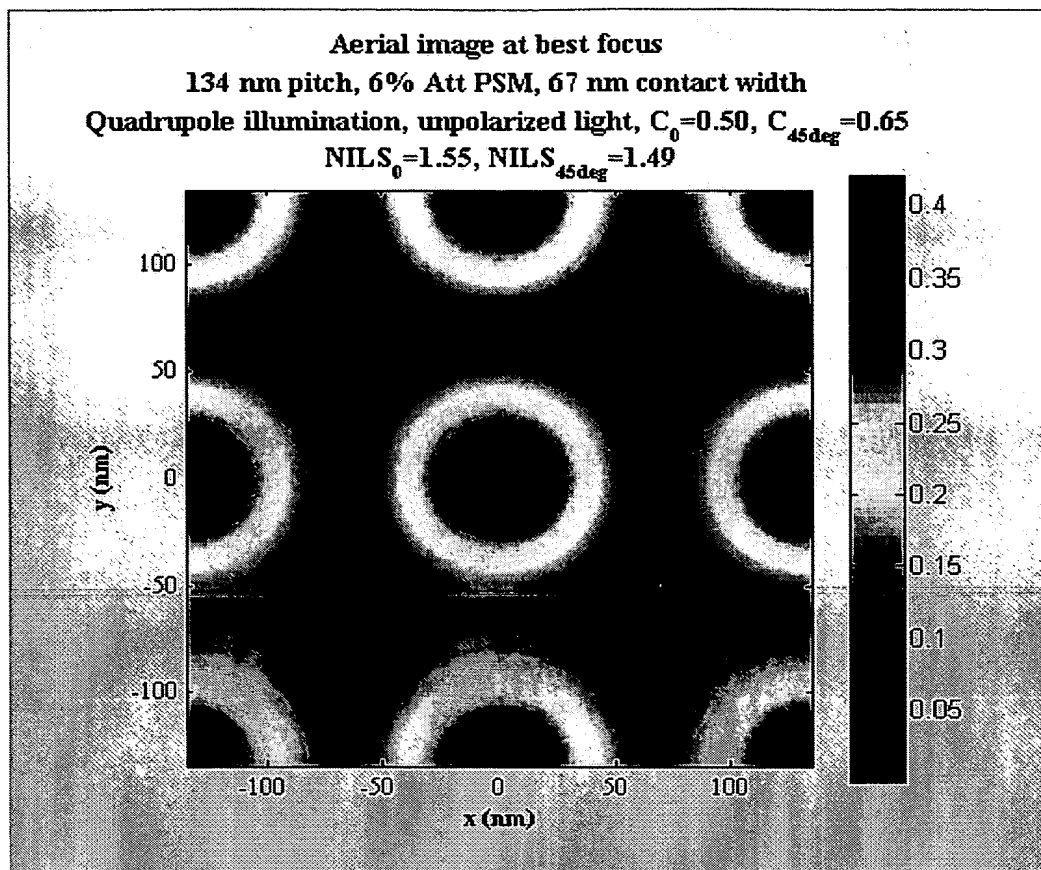


FIG. 5

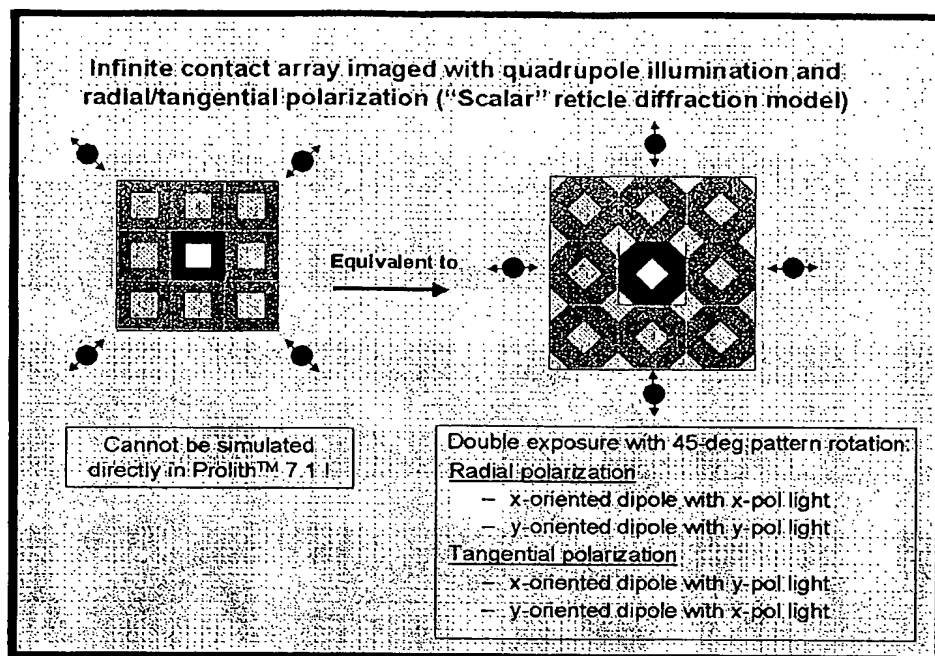


FIG. 6

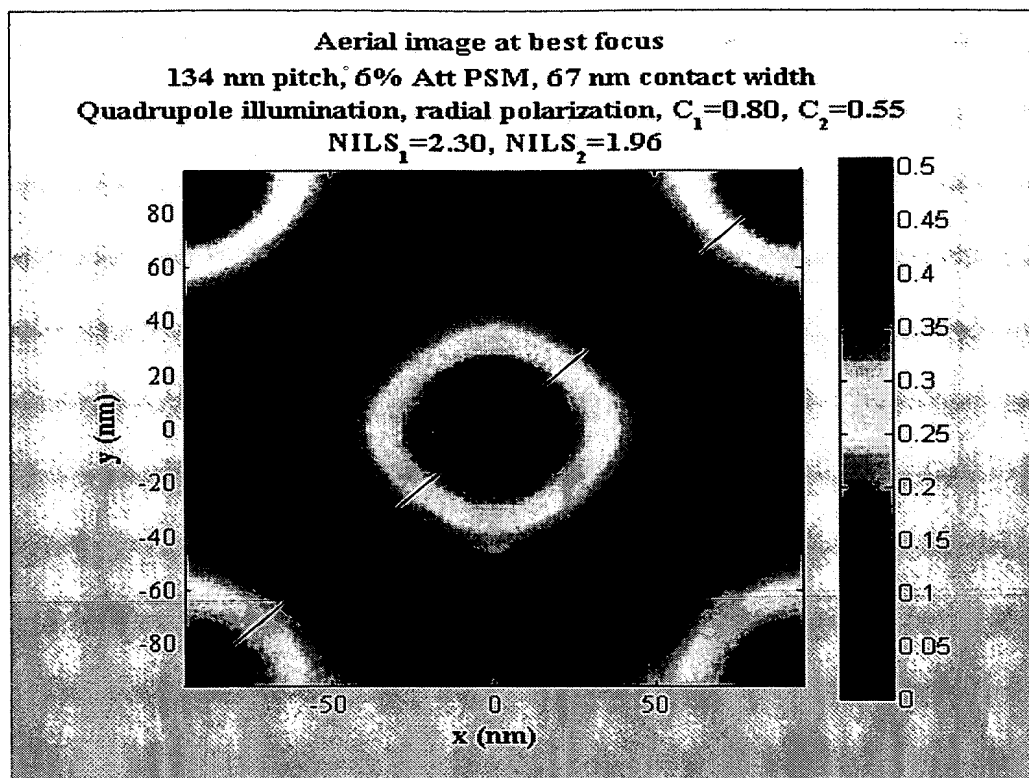


FIG. 7A

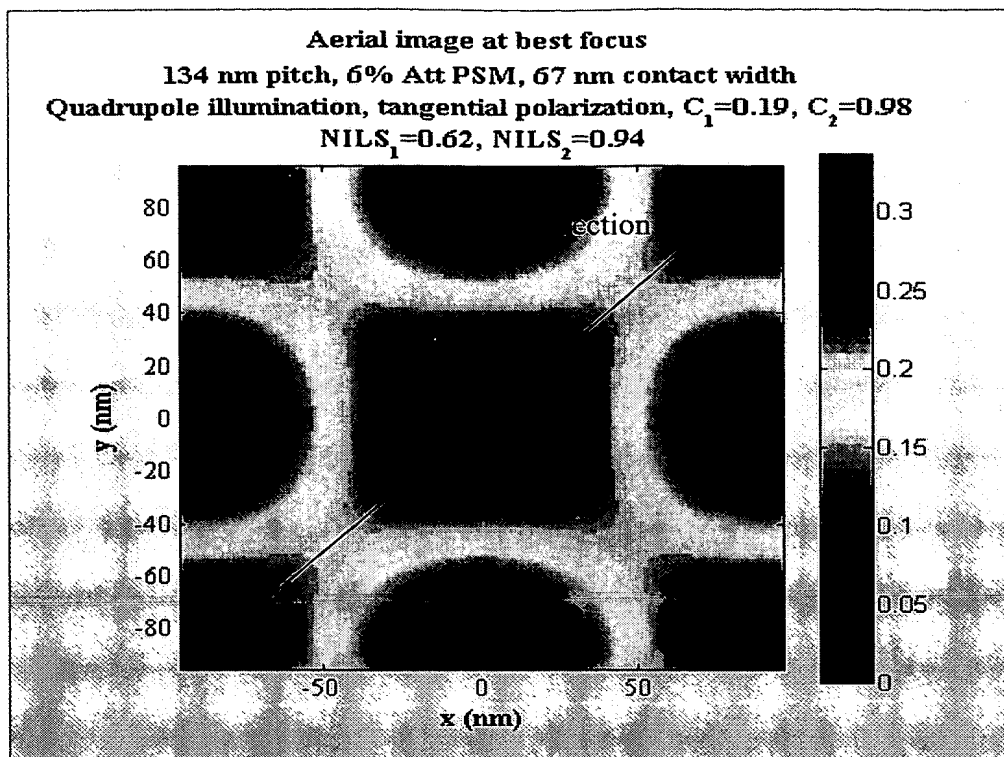


FIG. 7B

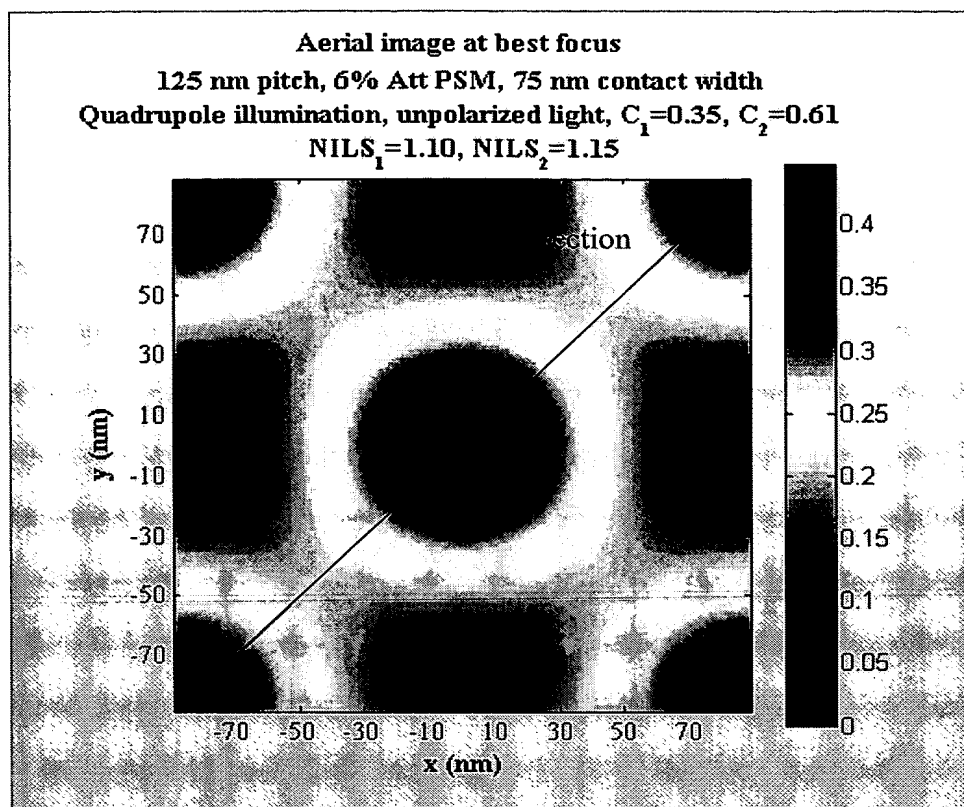


FIG. 8A

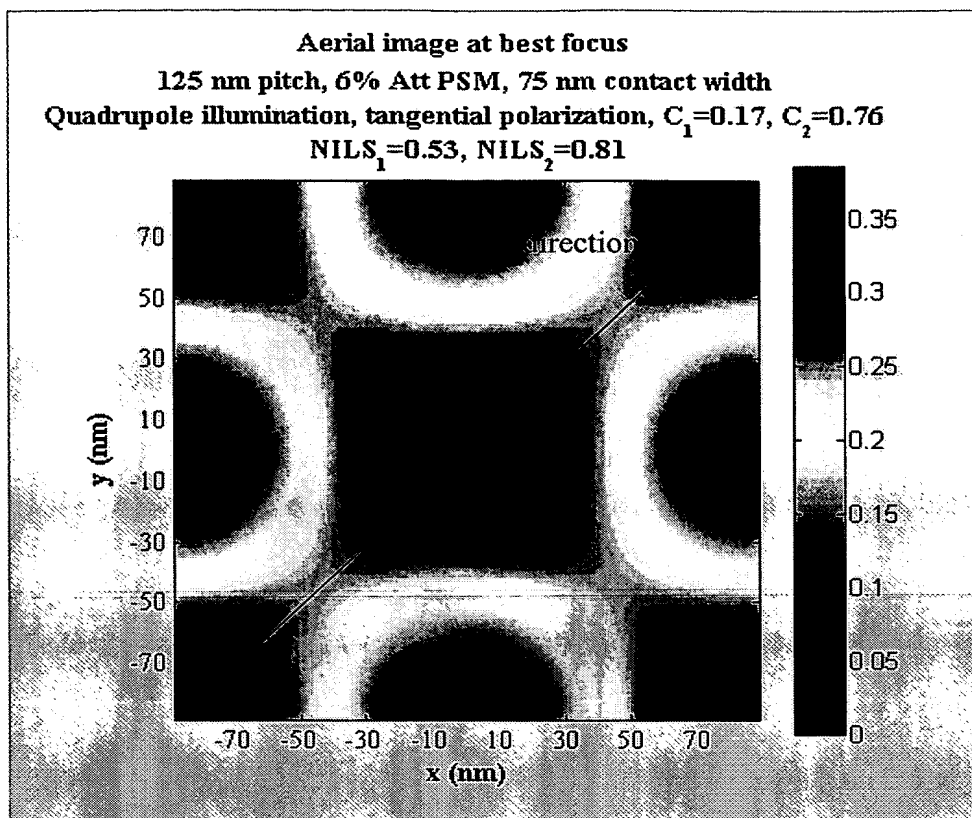


FIG. 8B

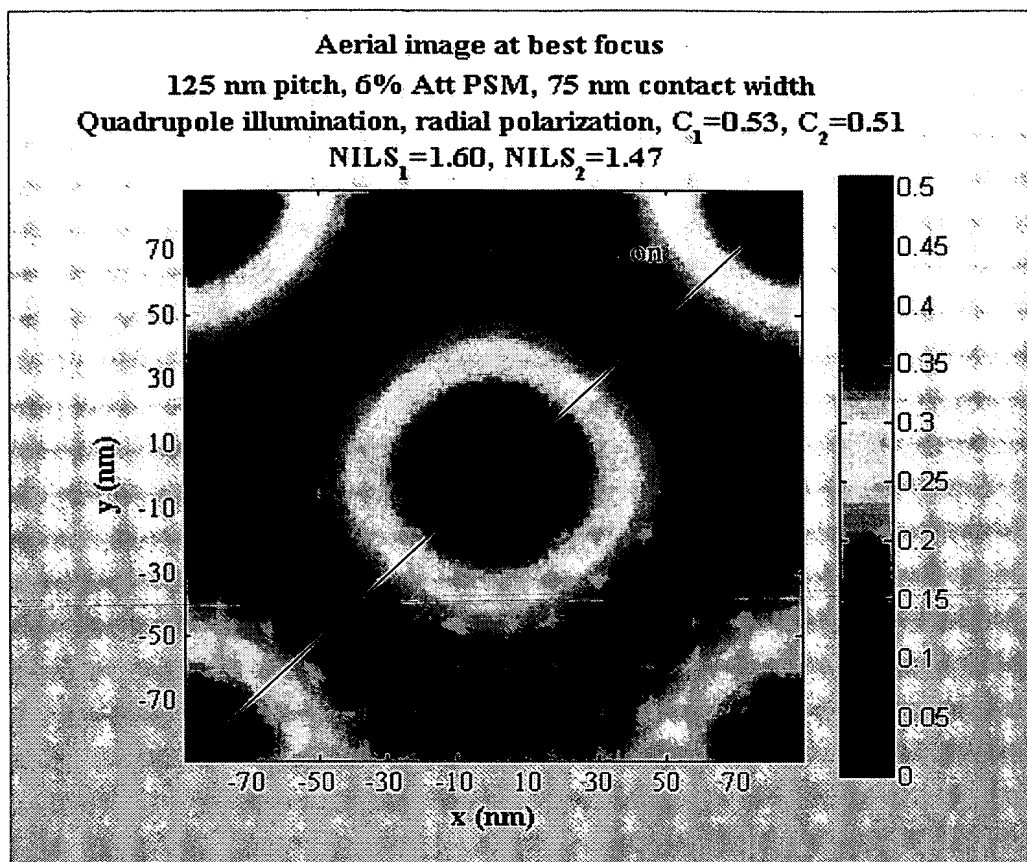


FIG. 8C

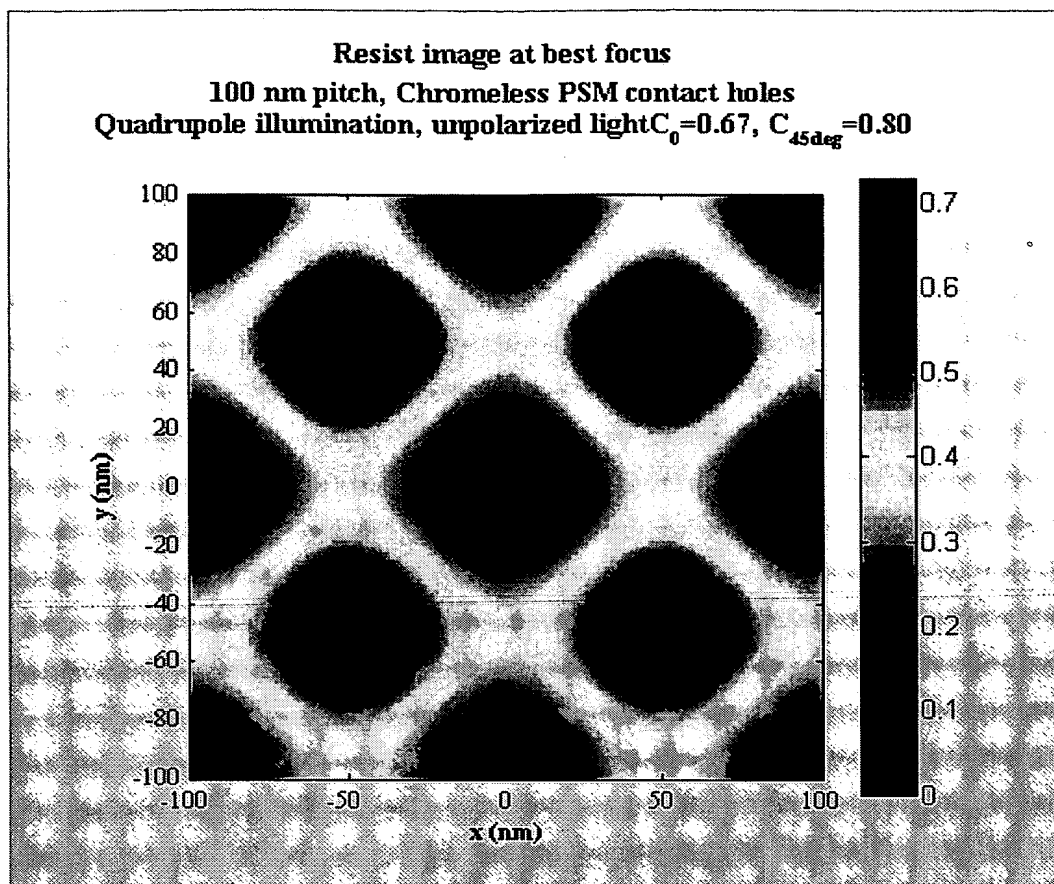


FIG. 9A

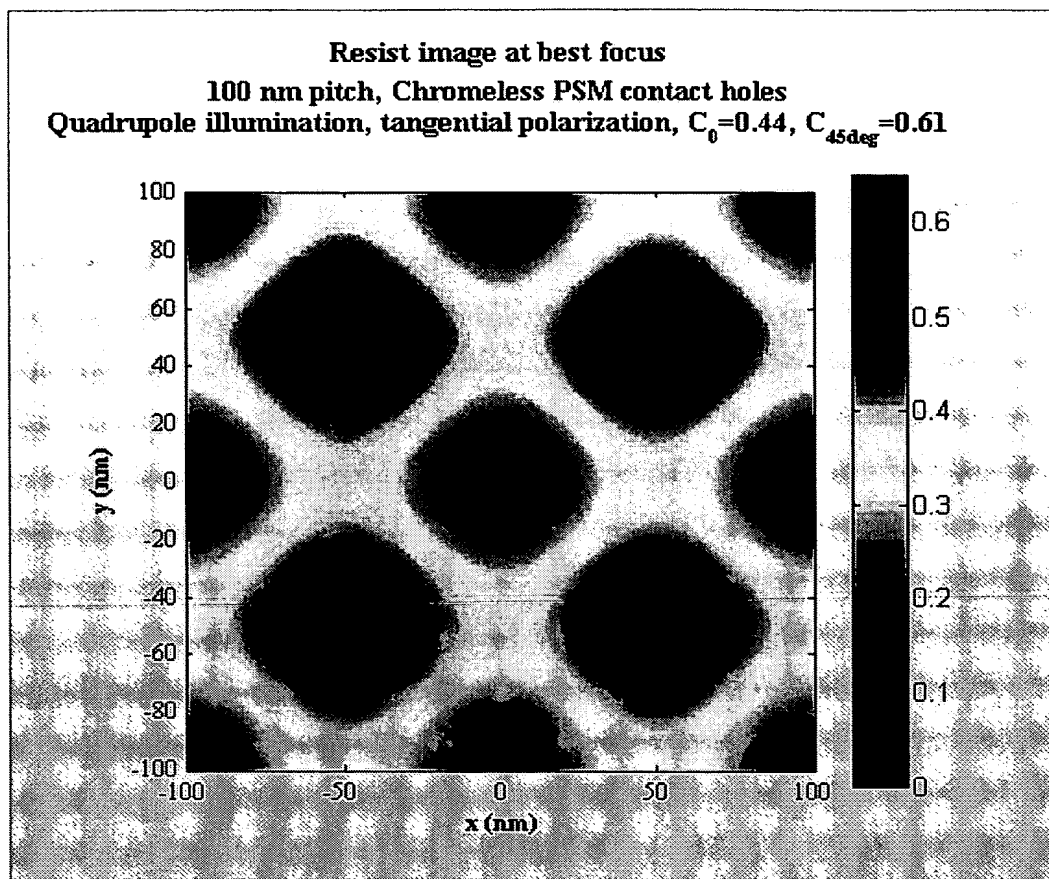


FIG. 9B

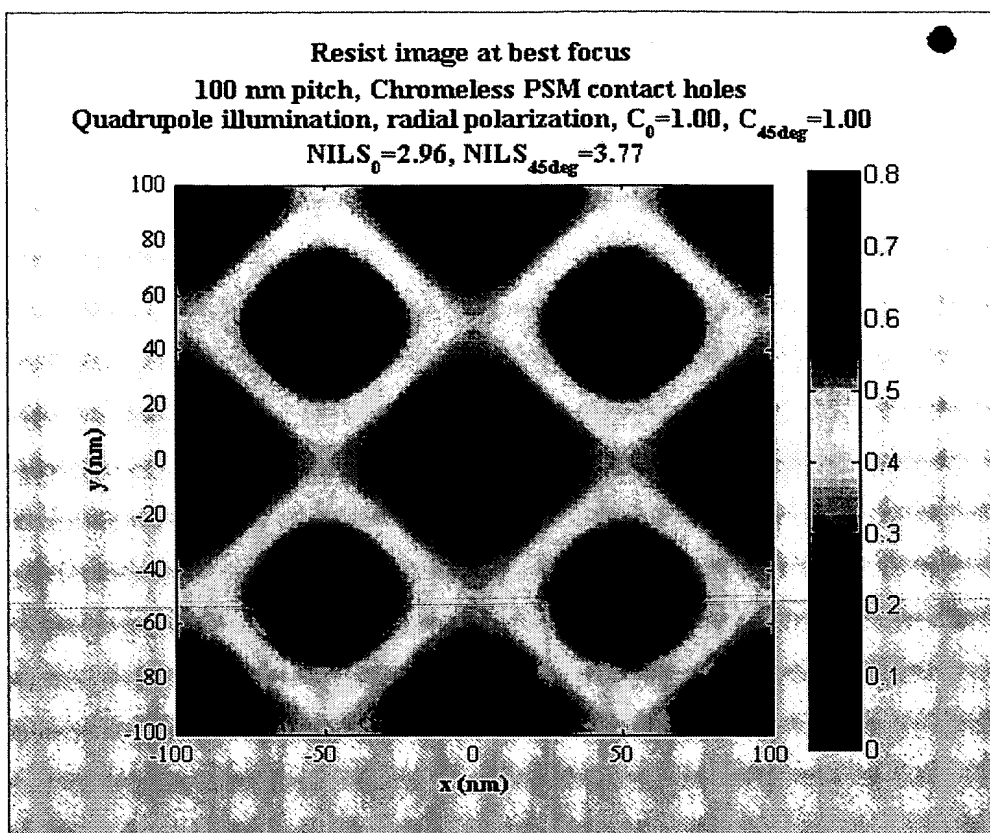


FIG. 9C

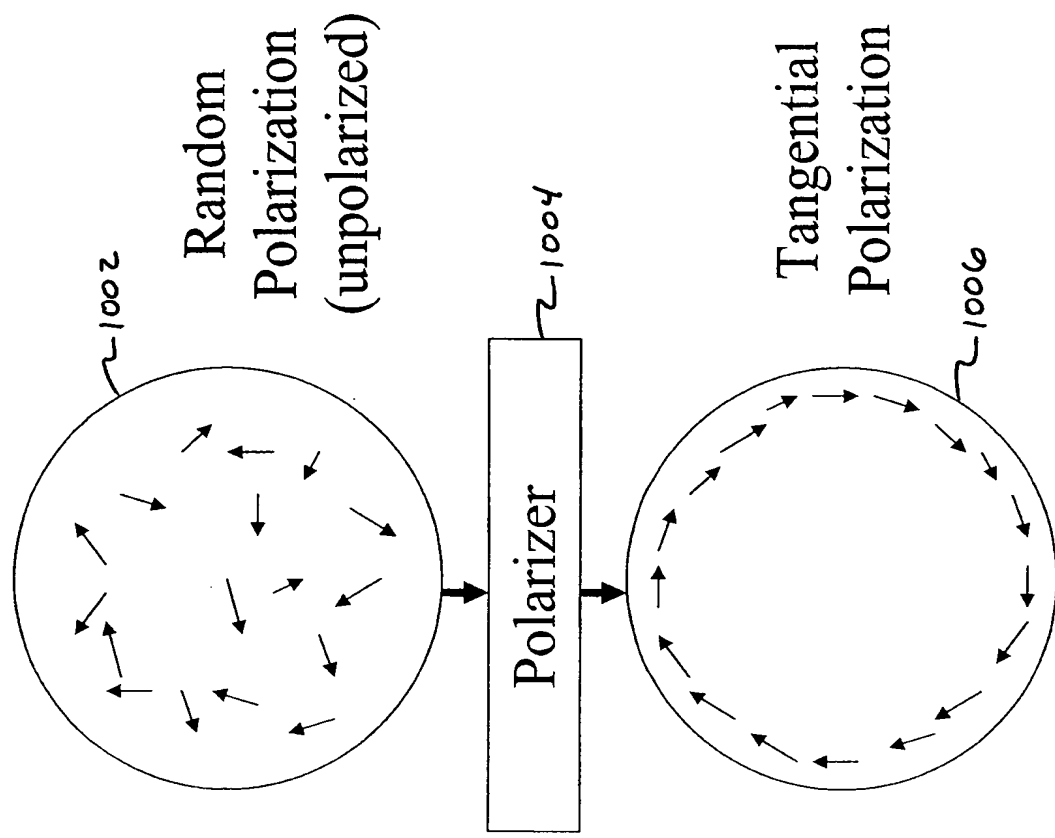


FIG. 10A

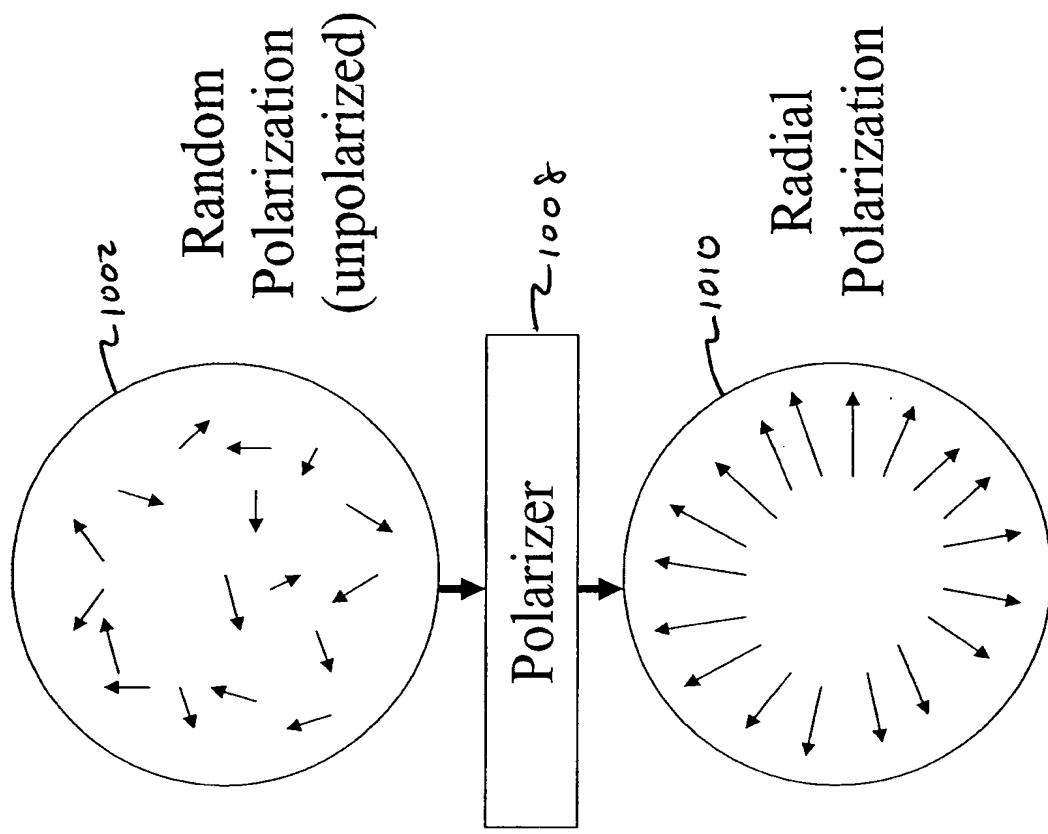


FIG. 10B

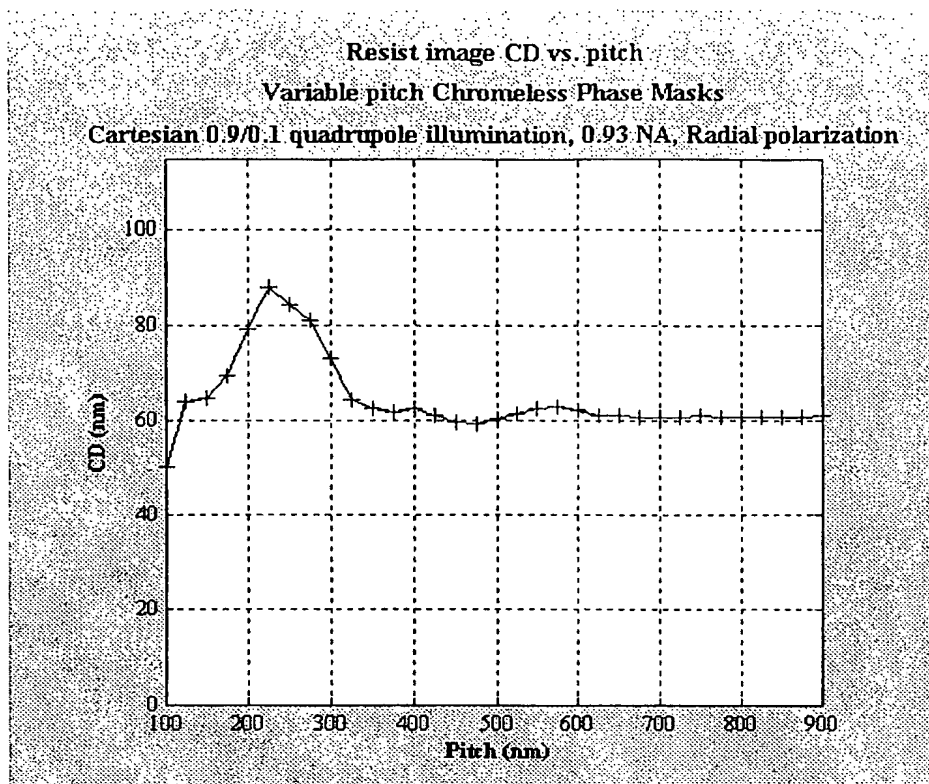


FIG. 11A

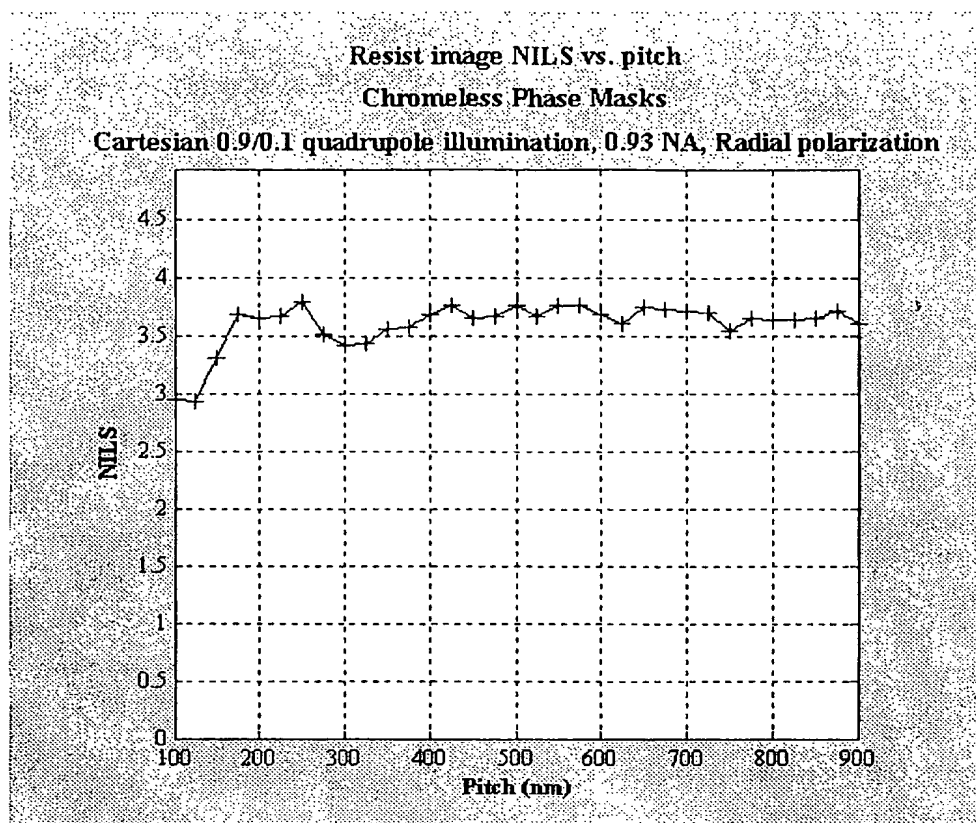


FIG. 11B

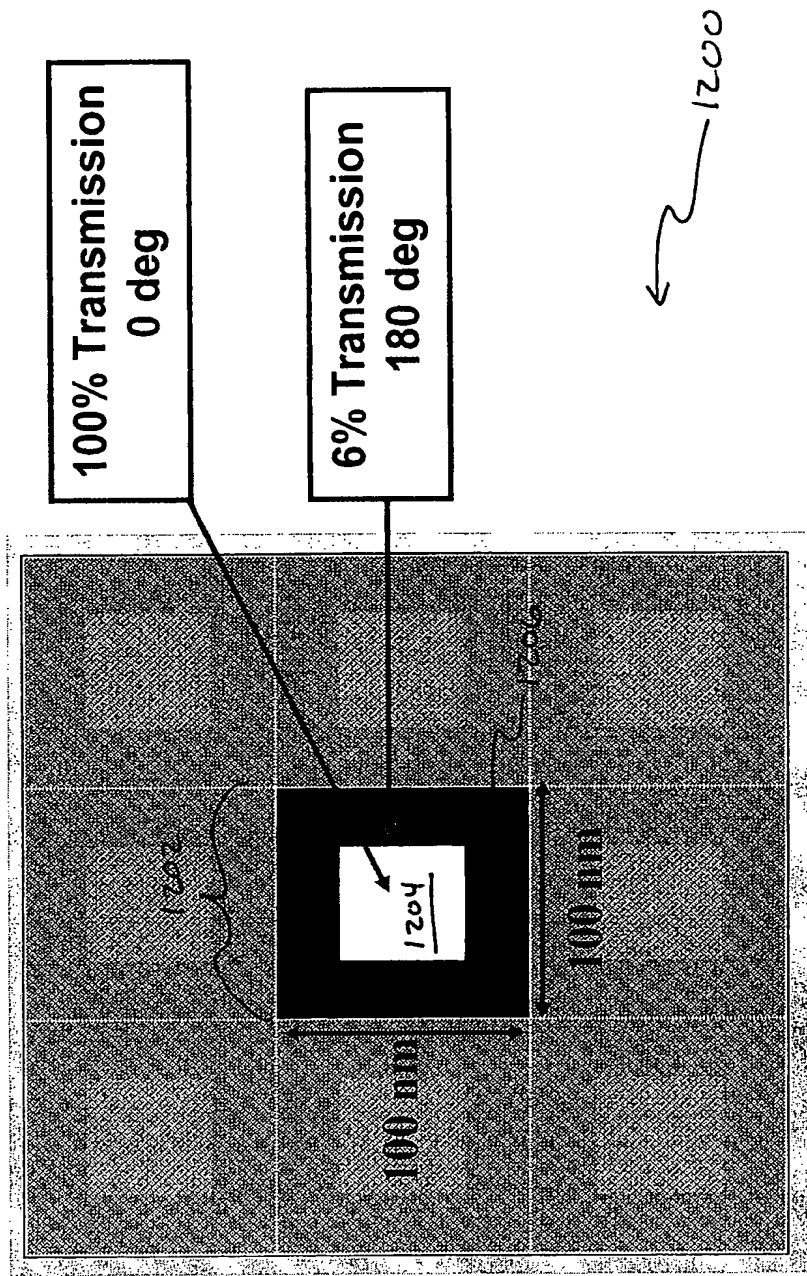


FIG. 12

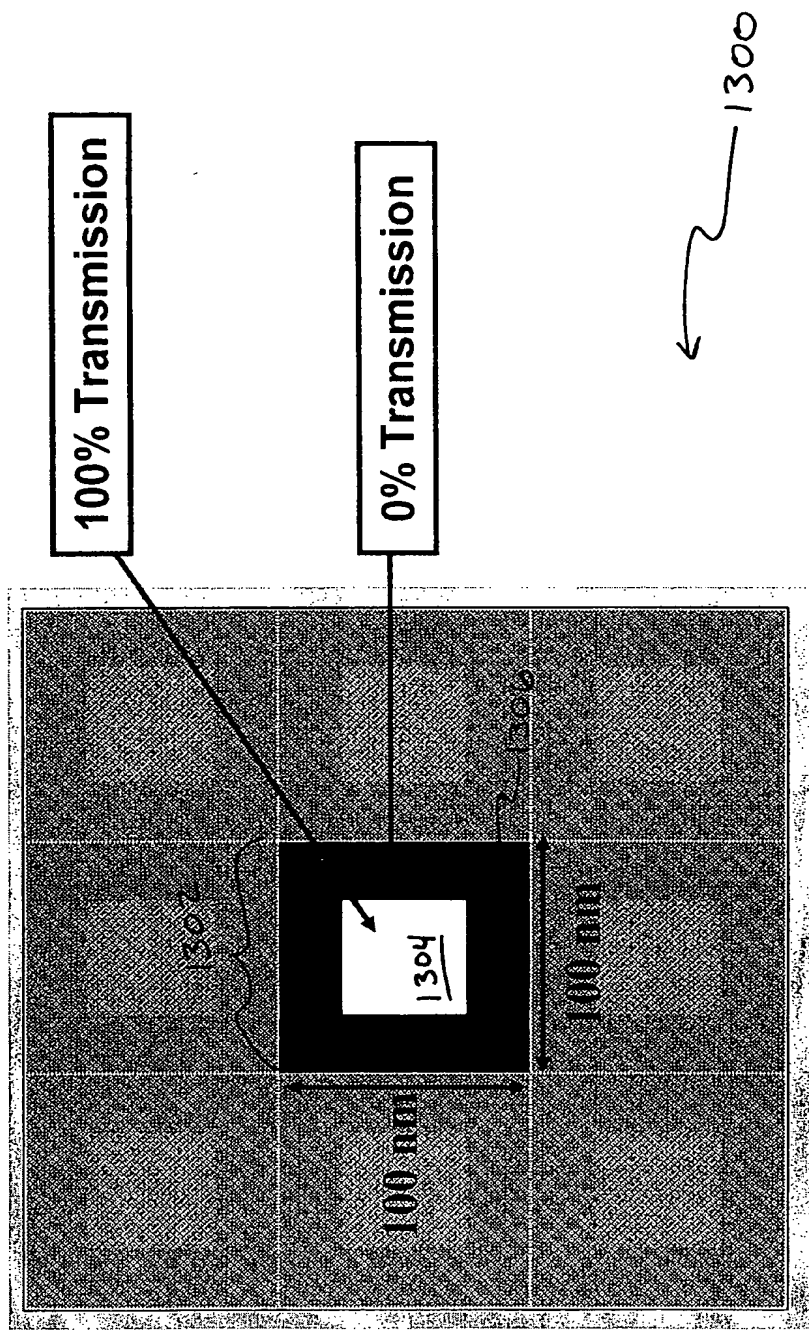


FIG. 13

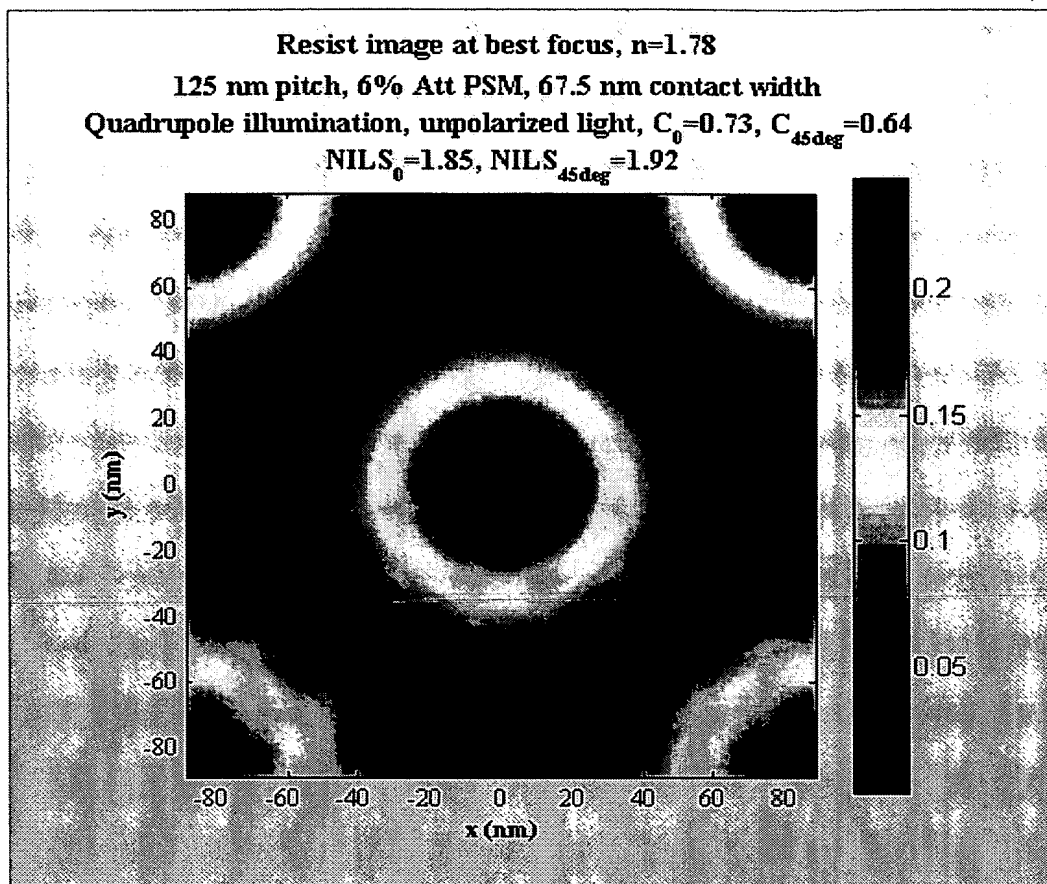


FIG. 14A

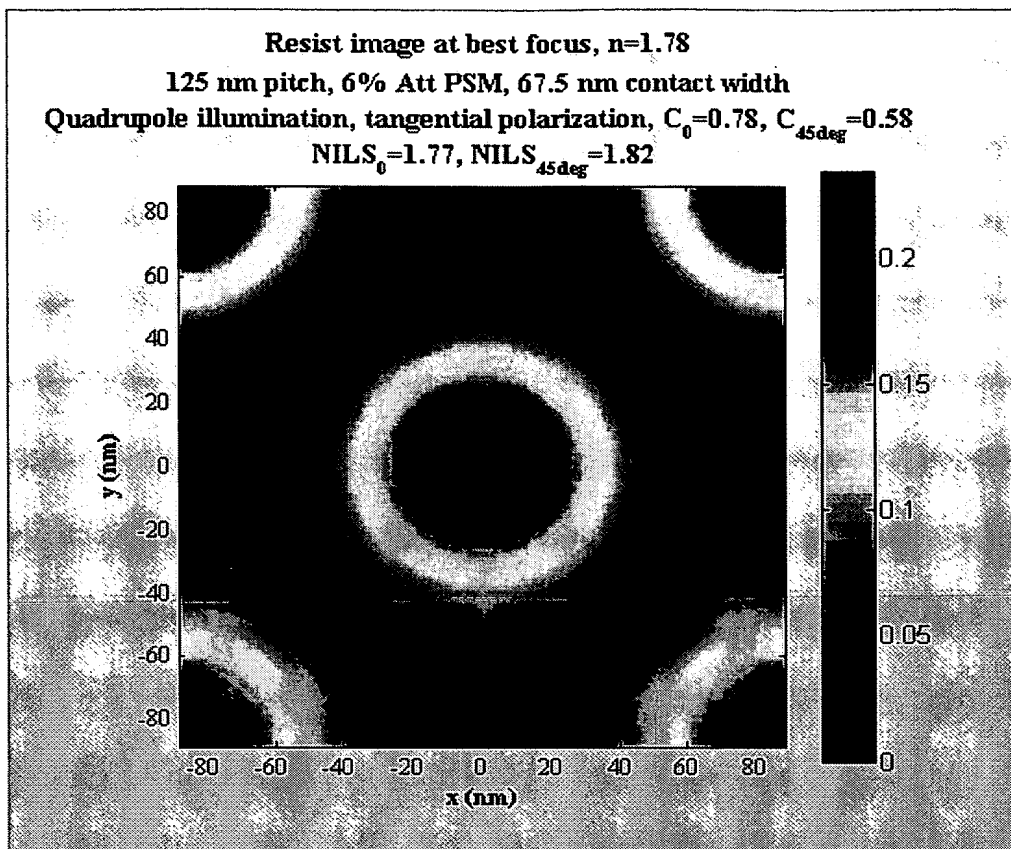


FIG. 14B

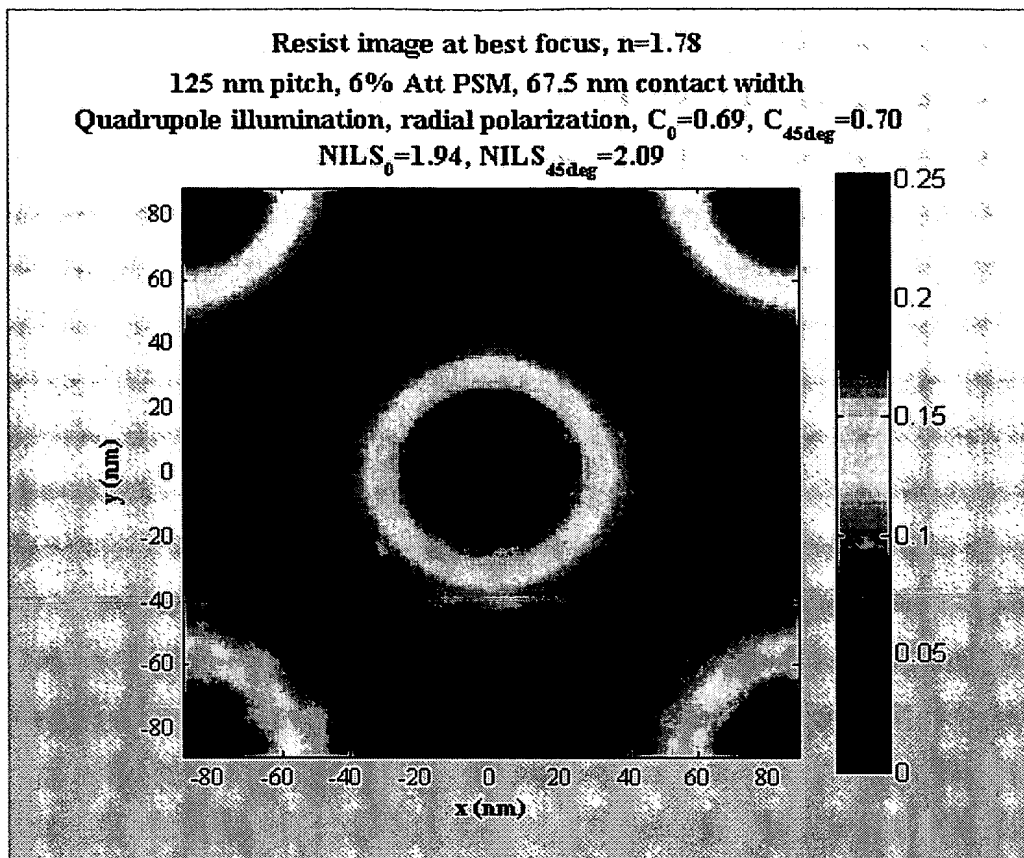


FIG. 14C

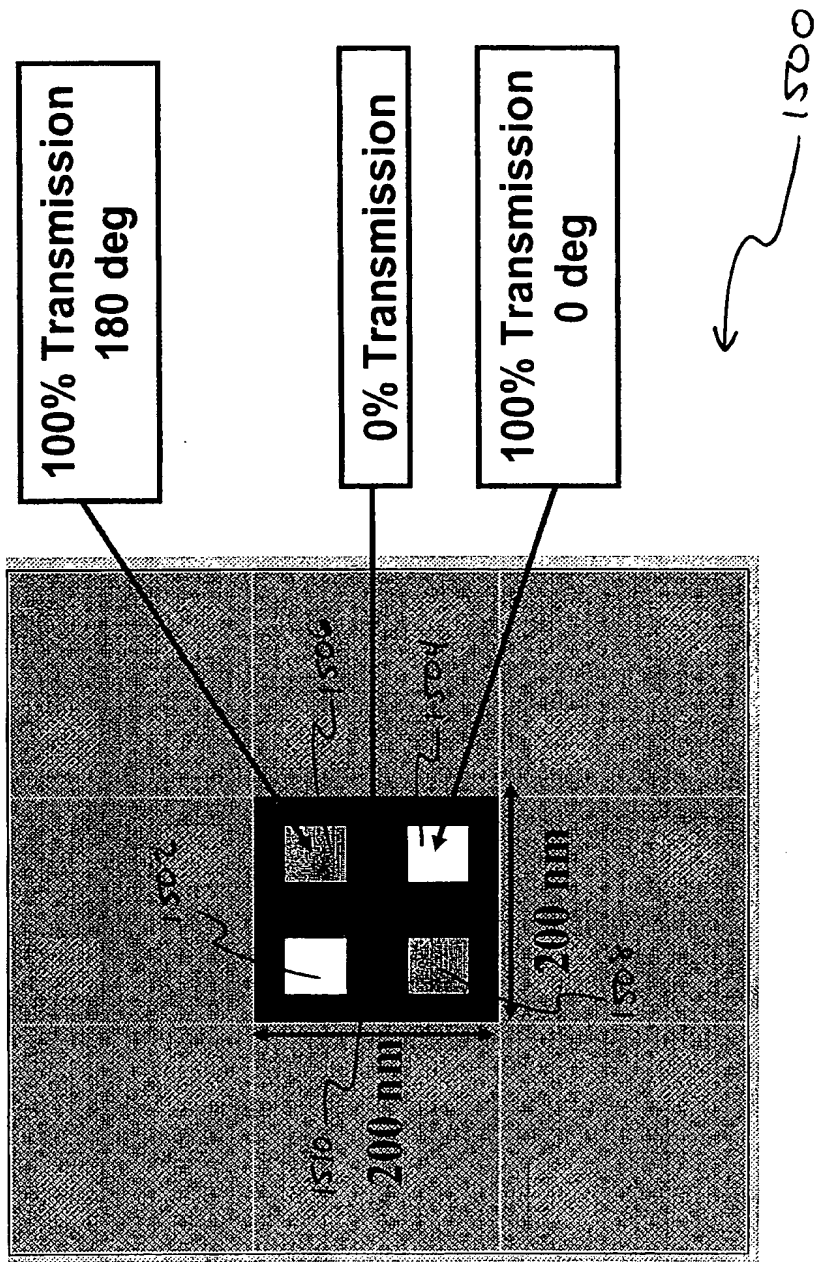


FIG. 15

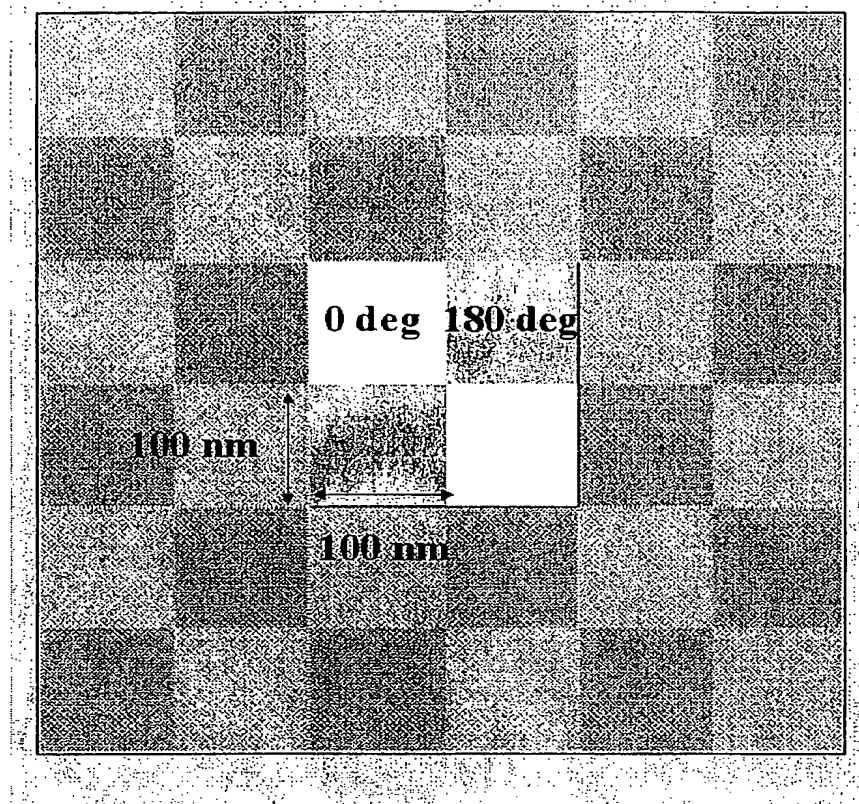


FIG. 16

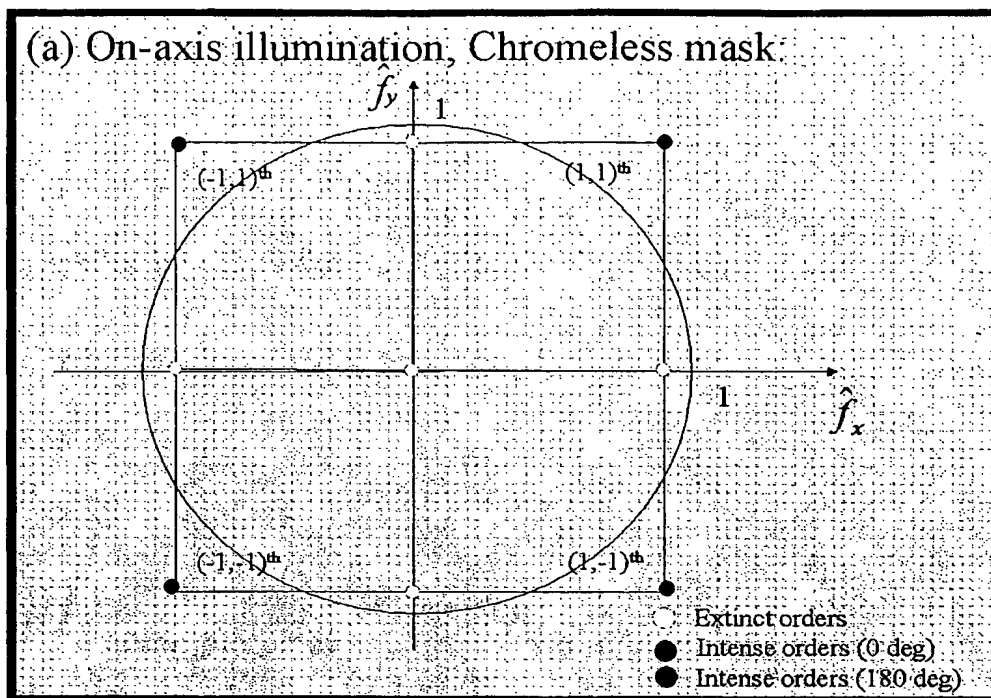


FIG. 17A

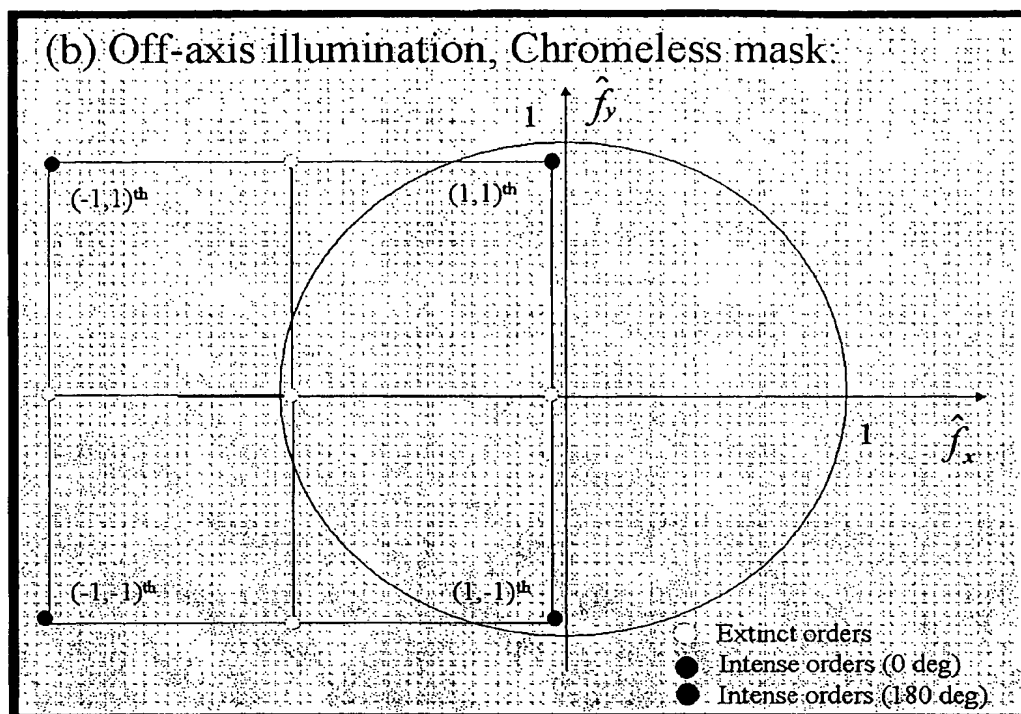


FIG. 17B

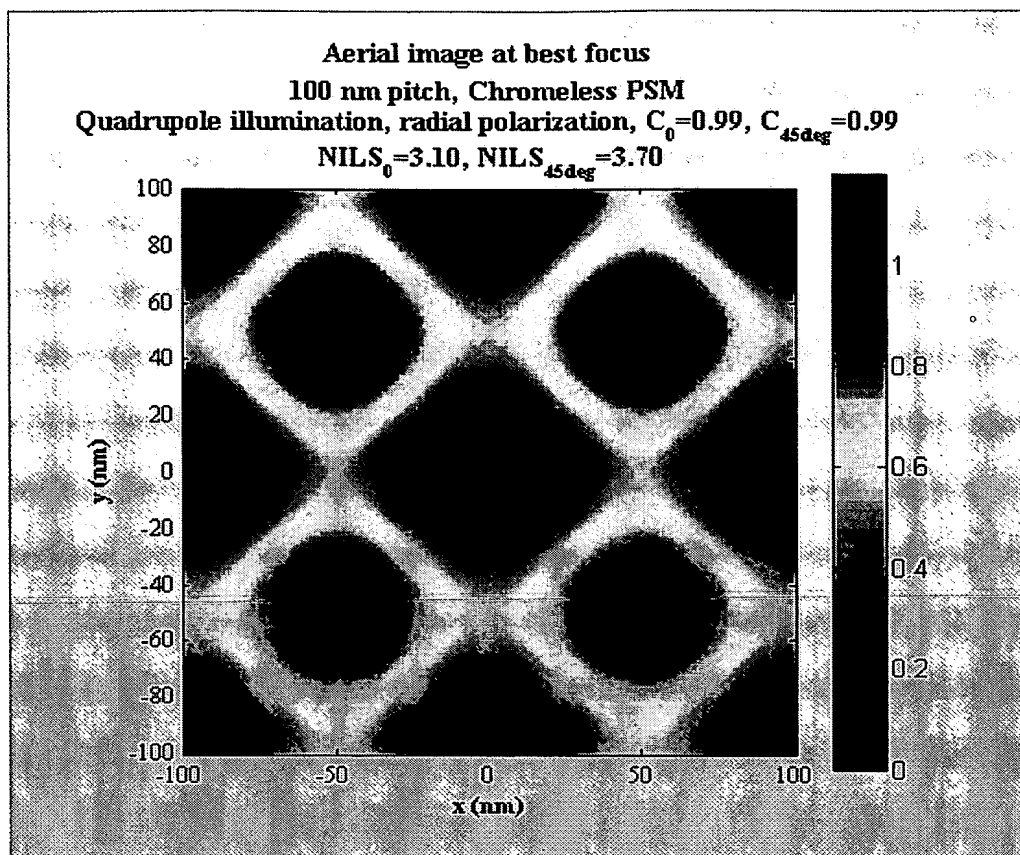


FIG. 18A

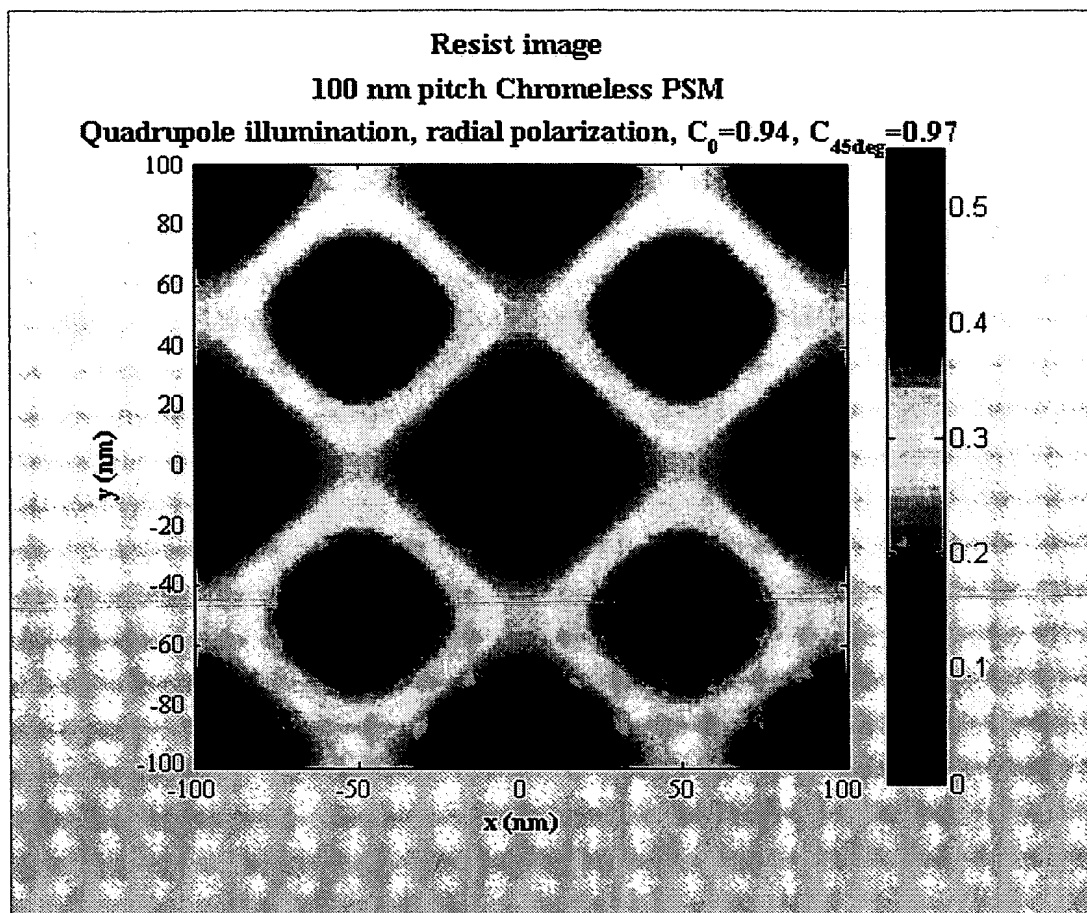
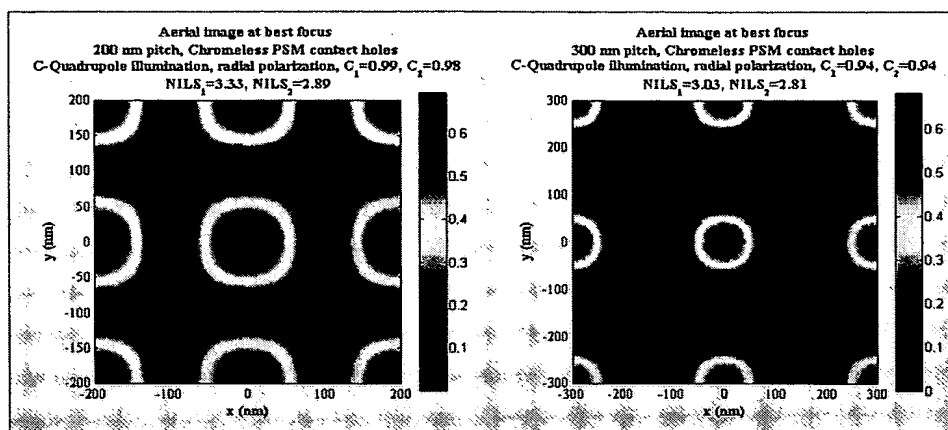


FIG. 18B

Aerial image at best focus, variable pitch, chromeless alternating PSMs

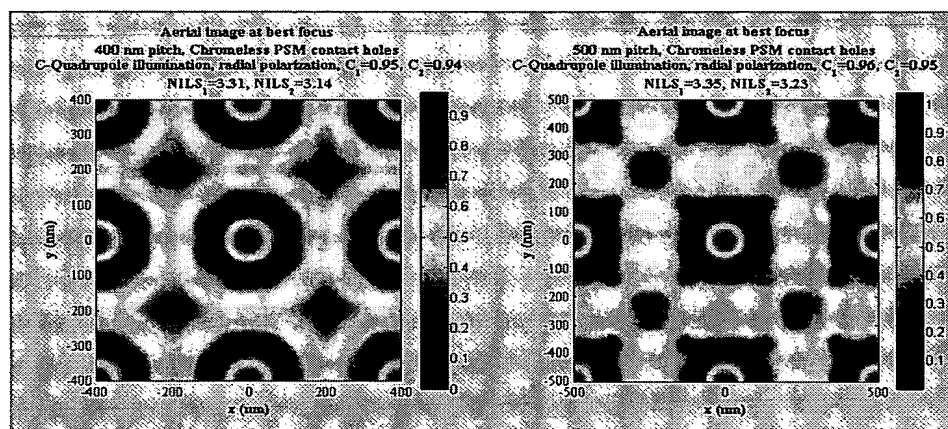
200-nm pitch

300-nm pitch



400-nm pitch

500-nm pitch



600-nm pitch

1000-nm pitch

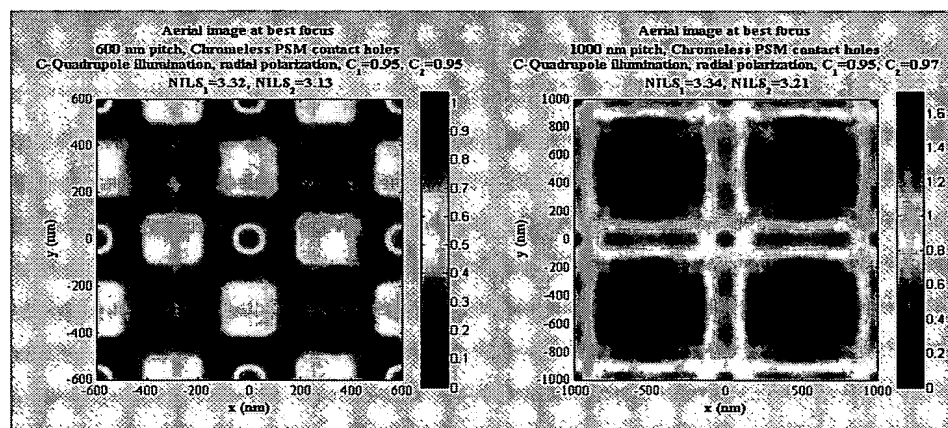


FIG. 19

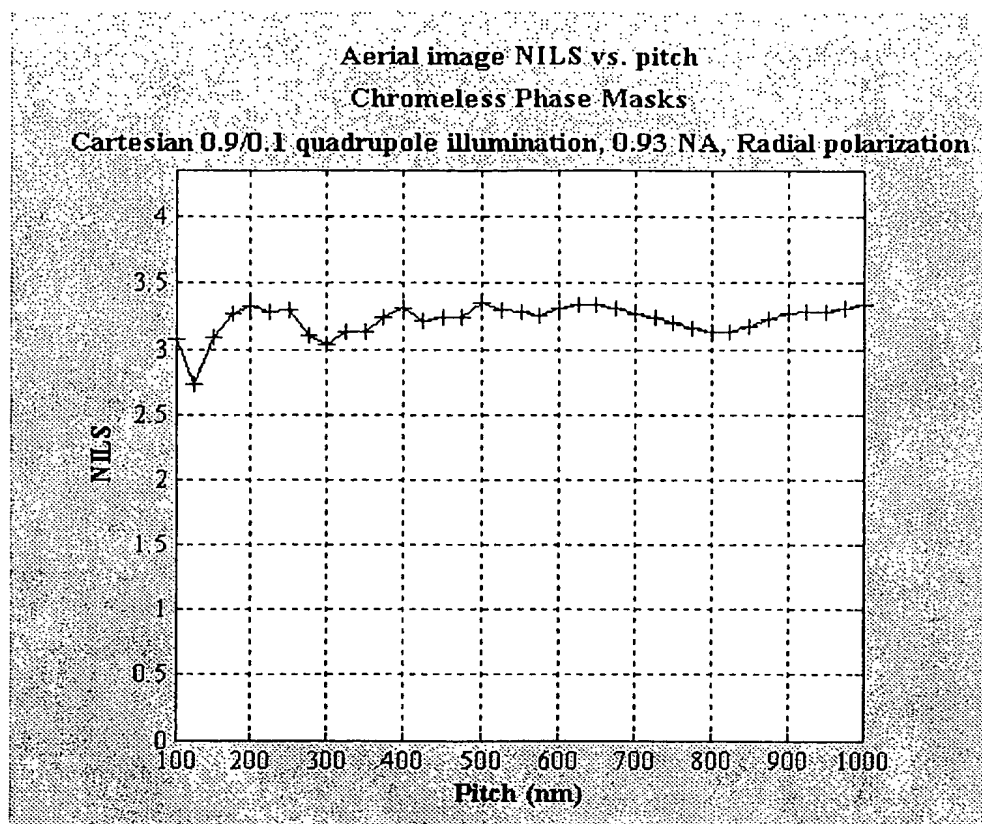


FIG. 20A

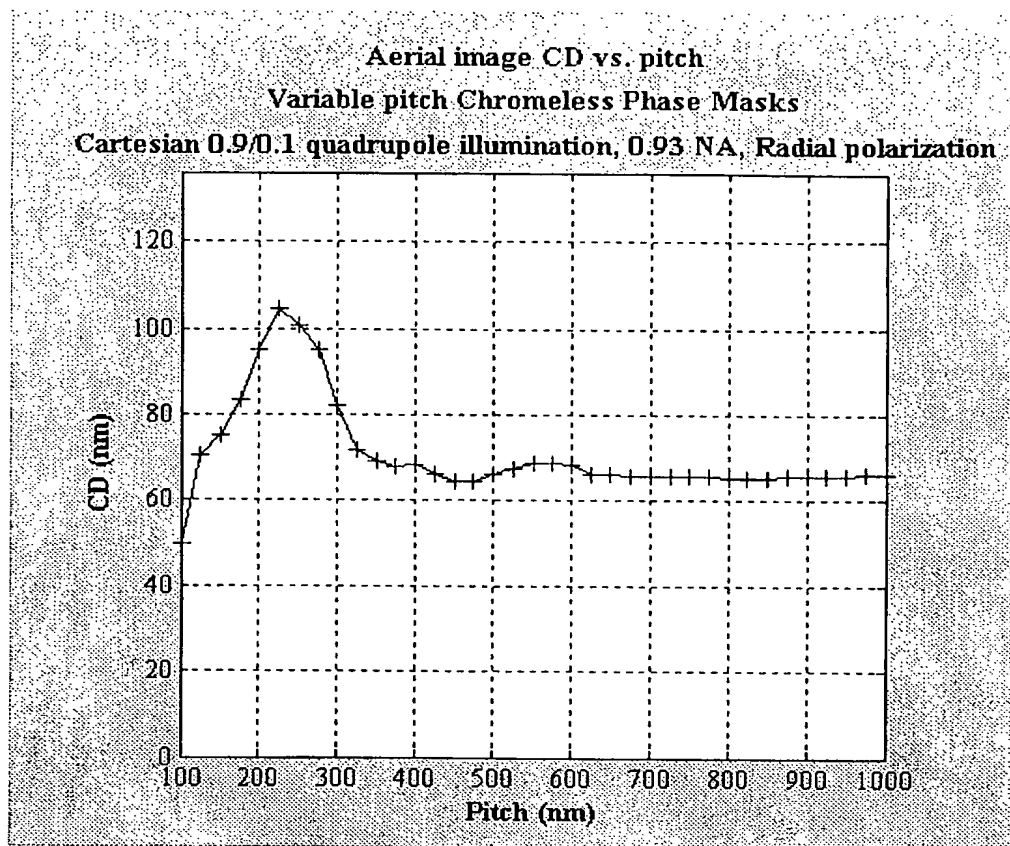


FIG. 20B

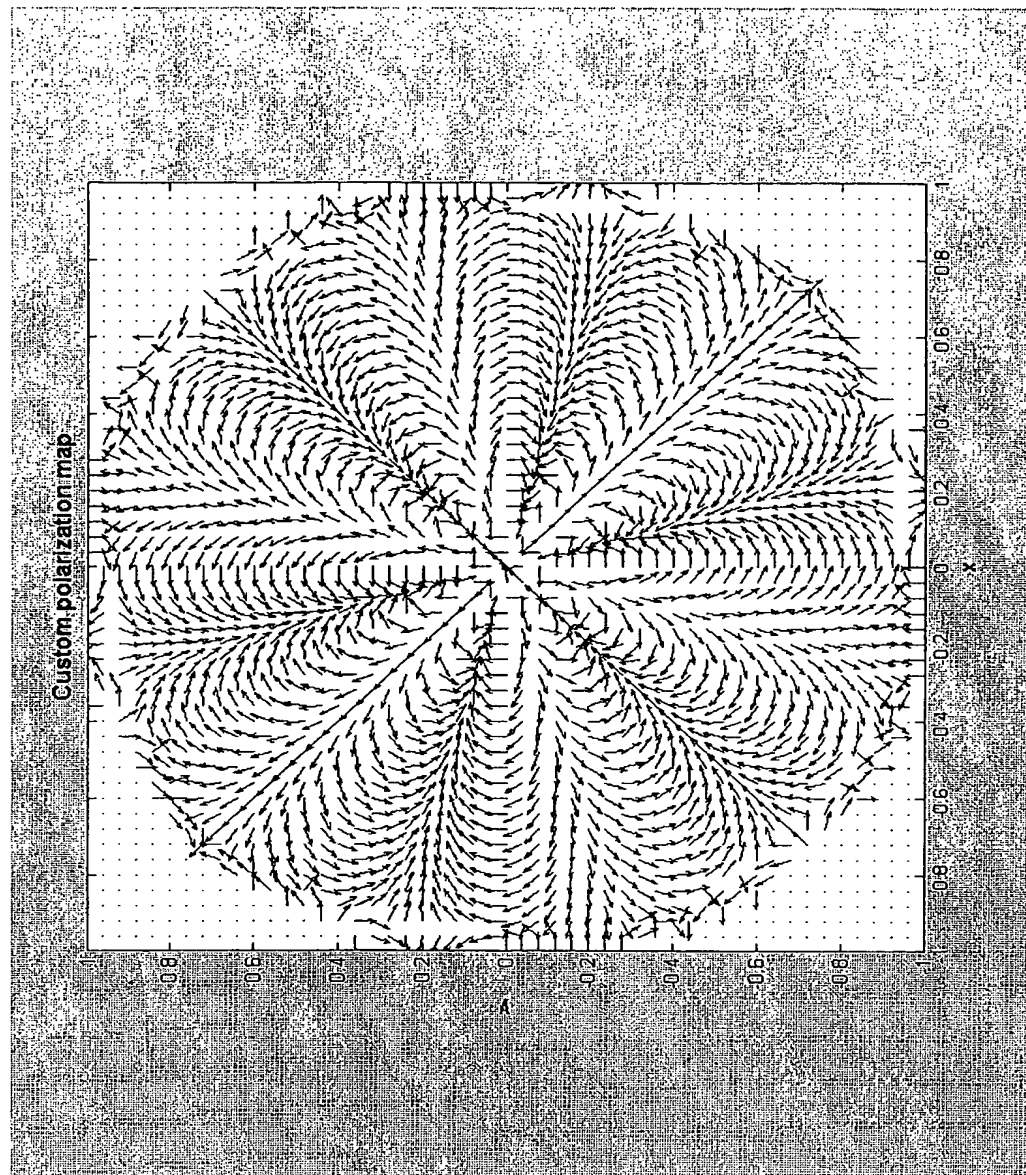


FIG. 21A

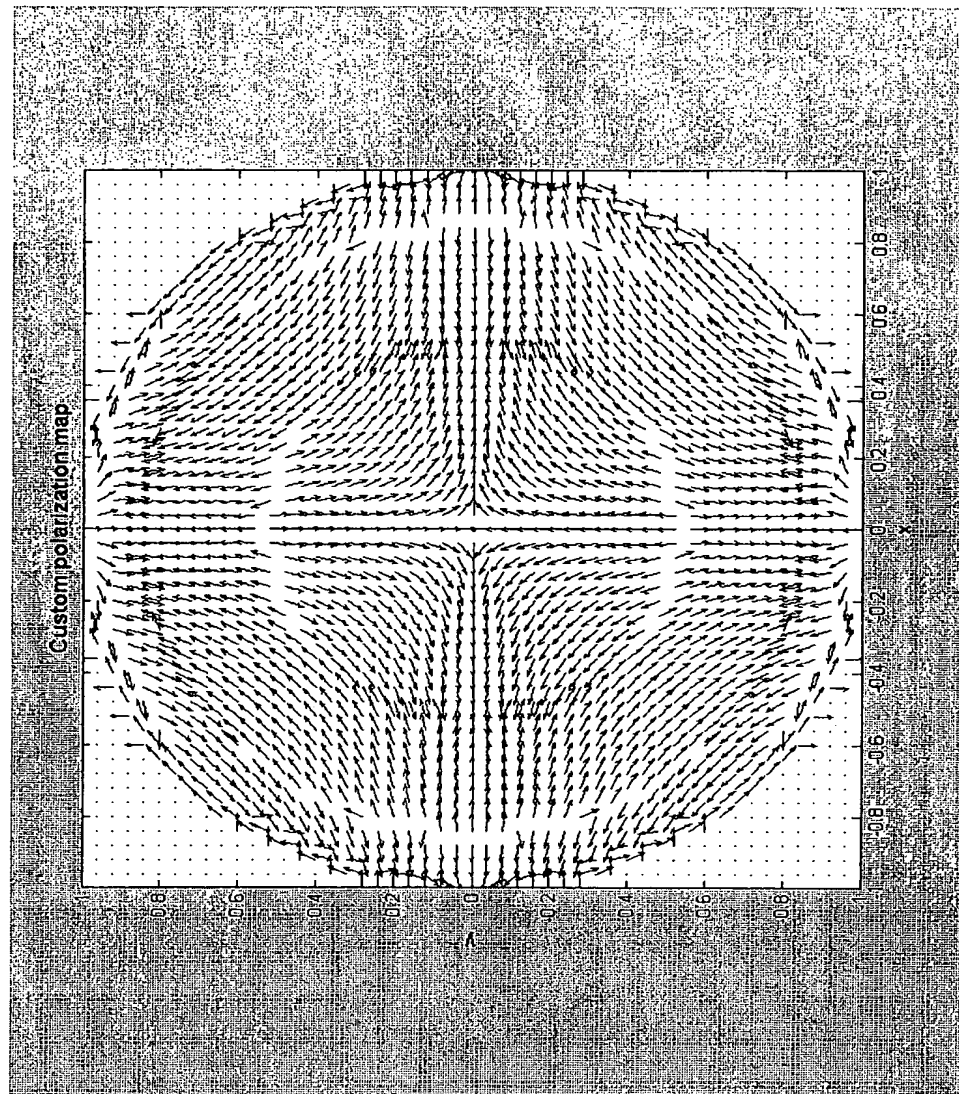


FIG. 21B

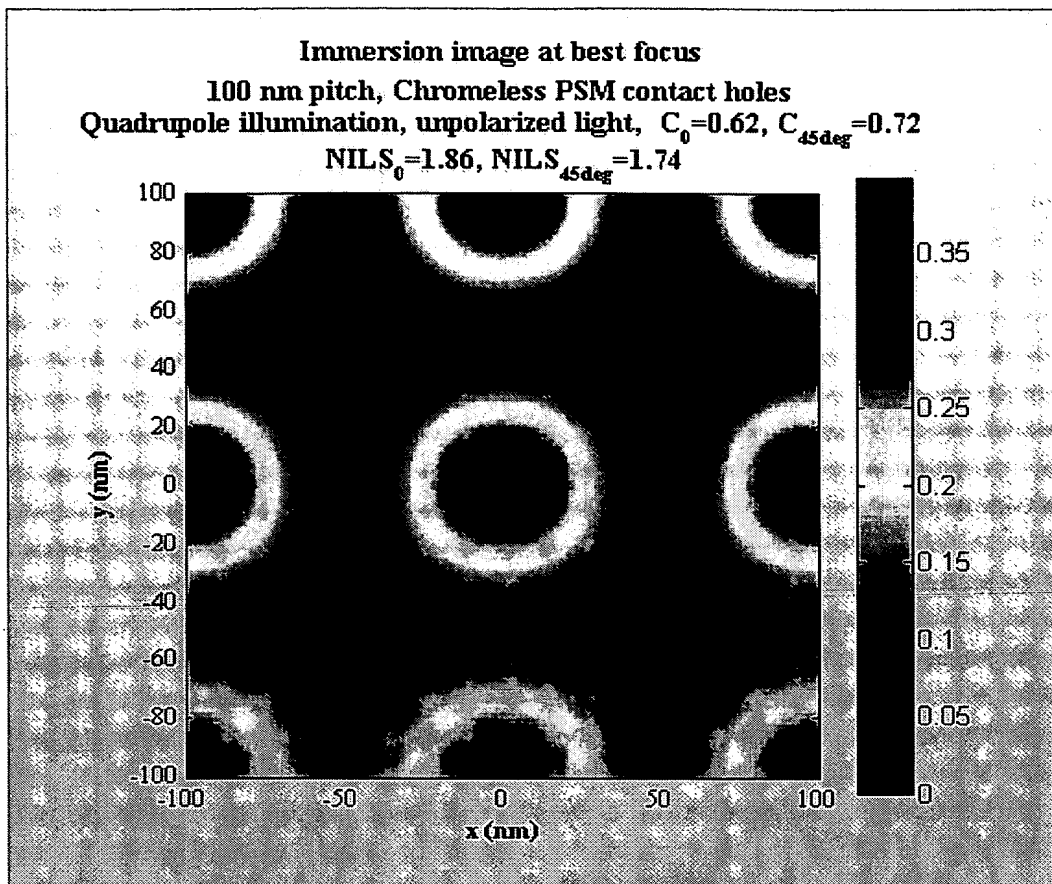


FIG. 22

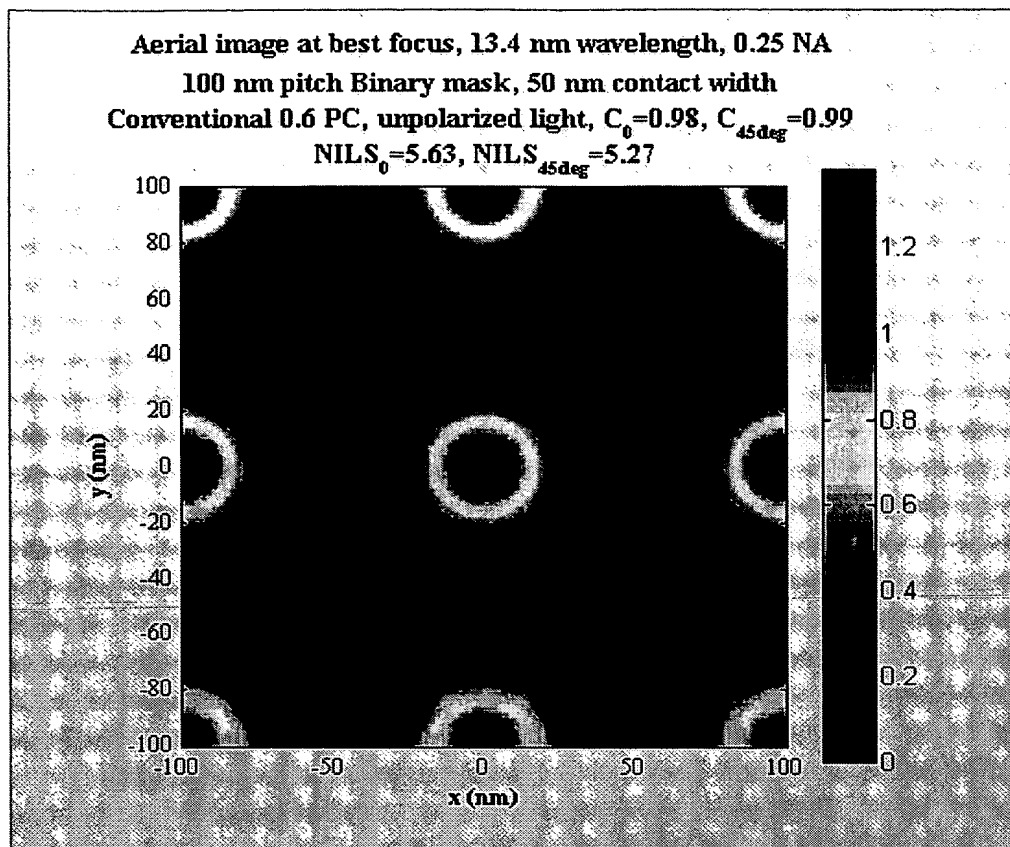


FIG. 23